(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of (Form PCT/ISA/2)	of Transmittal of International Search Report 20) as well as, where applicable, Item 5 below.
09586 International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/JP 03/14622	18/11/2003	19/11/2002
Applicant		
TAKEDA CHEMICAL INDUSTRIES	S, LTD.	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth Insmitted to the International Bureau.	ority and is transmitted to the applicant
This International Search Report consists  It is also accompanied by	of a total of8sheets. a copy of each prior art document cited in this	report.
1. Basis of the report		
	nternational search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this
With regard to any nucleotide and was carried out on the basis of the	d/or amino acid sequence disclosed in the int	ternational application, the international search
<del></del>	nal application in written form.	
filed together with the inter	mational application in computer readable form	ı <b>.</b>
furnished subsequently to	this Authority in written form.	
	this Authority in computer readble form.	
the statement that the sub international application as	sequently furnished written sequence listing do s filed has been furnished.	es not go beyond the disclosure in the
the statement that the info furnished	rmation recorded in computer readable form is	identical to the written sequence listing has been
2. X Certain claims were four	d unsearchable (See Box I).	
3. Unity of invention is lack	ing (see Box II).	
4. With regard to the title,		
the text is approved as sub	omitted by the applicant.	
	ed by this Authority to read as follows:	
INDOLE DERIVATIVES AS	SOMATOSTATIN AGONISTS OR ANT	ragonists
5. With regard to the abstract,  X the text is approved as sub-	mitted by the applicant	ŧ
the text has been establish	nitited by the applicant.  ed, according to Rule 38.2(b), by this Authority date of mailing of this International search repo	as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawings to be public	shed with the abstract is Figure No.	-
as suggested by the applic	ant.	None of the figures.
because the applicant faile	d to suggest a figure.	
because this figure better of	characterizes the invention.	

International Application No PCT44P 03/14622

A. CLASSIFICATION OF SUBJECT MA IPC 7 C07D209/20

A61K31/405

C07D209/20 C07D401/12 C07D401/14 C07D405/12

CO7D403/12 CO7D417/12 A61K31/497 C07D417/14 C07D405/14 A61P3/10 C07D495/04 C07D209/42 A61P3/04

According to International Patent Classification (IPC) or to both national classification and IPC

A61K31/454

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
х	US 2002/091090 A1 (HAY BRUCE A ET AL) 11 July 2002 (2002-07-11) paragraph [0013] - paragraph [0056] paragraph [0127] - paragraph [0129] paragraph [0221]; example 21	1-27		
X	GB 2 351 733 A (MERCK & CO INC) 10 January 2001 (2001-01-10) claims see definition of t=0 for R3 in claims	1-27		
P,X	HERNANDEZ, FERNANDO ET AL: "A short synthesis of de-"prenyl"-ardeemin" TETRAHEDRON LETTERS, 44(16), 3367-3369 CODEN: TELEAY; ISSN: 0040-4039, 2003, XP004417076 compounds 7	1-20		
	-/			
		1		

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  3 June 2004	Date of mailing of the international search report  0.8. 05. 04
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Kollmannsberger, M

International Application No PCT/JP 03/14622

Category °	ation) DOCUMENTS CORRED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
		risiovant to dann no.
X	WO 02/22577 A (NOVARTIS ERFIND VERWALT GMBH ; NOVARTIS AG (CH); BAIR KENNETH WALTER () 21 March 2002 (2002-03-21) claim 16 page 62; examples 194,197	1-20
x	MALY, DUSTIN J. ET AL: "Expedient Solid-Phase Synthesis of Fluorogenic Protease Substrates Using the 7-Amino-4-carbamoylmethylcoumarin (ACC) Fluorophore" JOURNAL OF ORGANIC CHEMISTRY, 67(3), 910-915 CODEN: JOCEAH; ISSN: 0022-3263, 2002, XP002271450 example 8S; table 1	1-20
	DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; ESCHERICH, ACHIM ET AL: "Peptide/benzodiazepine hybrids as ligands of CCKA and CCKB receptors" XP002271451 retrieved from STN Database accession no. 2001:846593 compound with RN 404391-74-8 & BIOPOLYMERS, VOLUME DATE 2000-2001, 56(2), 55-76 CODEN: BIPMAA; ISSN: 0006-3525, 2001,	1-20
	WO 01/74844 A (HOFFMANN LA ROCHE) 11 October 2001 (2001-10-11) claim 1 examples 60-62,94-96	1-20
	WO 01/55106 A (KALVINS IVARS; KAUSS VALERJANS (LV); STARCHENKOV IGOR (LV); TRAPENCIE) 2 August 2001 (2001-08-02) page 24; example 2.21	1-20
	DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; MERGLER, MONIKA ET AL: "Protected peptide p-nitroanilides by solid-phase synthesis" XP002271452 retrieved from STN Database accession no. 2000:113867 compounds with RN 265327-63-7, 265327-64-8, 265327-70-6, 265327-71-7 & LETTERS IN PEPTIDE SCIENCE, 7(1), 1-7 CODEN: LPSCEM; ISSN: 0929-5666, 2000,	1-20

International Application No PC 03/14622

C.(Continu	ation) DOCUMENTS CONS ED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; BERNHARDT, ANNE ET AL: "The solid-phase synthesis of side-chain-phosphorylated peptide-4-nitroanilides" XP002271453 retrieved from STN Database accession no. 1997:535830 compounds with RN 150933-27-0, 194670-62-7 & JOURNAL OF PEPTIDE RESEARCH, 50(2), 143-152 CODEN: JPERFA; ISSN: 1397-002X, 1997,	1-20
	VARNAVAS A ET AL: "ANTHRANOYL-ANTHRANILIC ACID: A TEMPLATE FOR THE DEVELOPMENT OF A NEW CLASS OF CHOLECYSTOKININ RECEPTOR LIGANDS" PHARMAZIE, VEB VERLAG VOLK UND GESUNDHEIT. BERLIN, DD, vol. 51, no. 10, 1 October 1996 (1996-10-01), pages 697-700, XP002056854 ISSN: 0031-7144 example 1; table 1	1-20
	MACOR J E ET AL: "The discovery of a novel and potent benzodiazepine receptor pharmacophore" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 5, no. 20, 19 October 1995 (1995-10-19), pages 2397-2402, XP004135272 ISSN: 0960-894X example 1N; table 1	1-20
	DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; GRAF, LASZLO ET AL: "Electrostatic complementarity within the substrate-binding pocket of trypsin" XP002271454 retrieved from STN Database accession no. 1988:566318 compounds with RN 1116883-22-8, 116906-84-4, & PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 85(14), 4961-5 CODEN: PNASA6; ISSN: 0027-8424, 1988,	1-20

International Application No P P 03/14622

		P 03/14022
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; TANAKA, TAKUMI ET AL: "Human leukocyte cathepsin G. Subsite mapping with 4-nitroanilides, chemical modification, and effect of possible cofactors" XP002271455 retrieved from STN Database accession no. 1985:162777 compound with RN 95364-17-3 & BIOCHEMISTRY, 24(8), 2040-7 CODEN: BICHAW; ISSN: 0006-2960, 1985,	1-13
X	GB 2 140 423 A (KIMBERLY CLARK CO) 28 November 1984 (1984-11-28) page 10; example 16	1-20
x	DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; BABA, YOSHIHIKO ET AL: "N.alphaAcylalphaL-amino acid anilides" XP002271456 retrieved from STN Database accession no. 1978:191467 compound with RN 66253-15-4 & JP 52 148032 A2 (SANKYO CO., LTD., JAPAN) 8 December 1977 (1977-12-08)	1-20
P,X	DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; TAKAHASHI, TOSHIHIRO ET AL: "Preparation of N-phenyl-N-(4-piperidinyl)amide derivatives as peripheral analgesics" XP002271457 retrieved from STN Database accession no. 2003:796661 compounds with RN 608536-05-6, 608536-06-7, 608536-07-8, 608536-08-9 abstract & WO 03/082819 A1 (NIPPON CHEMIPHAR CO.,LTD., JAPAN) 9 October 2003 (2003-10-09)	28
	EP 0 761 220 A (LILLY CO ELI) 12 March 1997 (1997-03-12) page 16 structure IV page 23; example 13 page 24; example 14	28

International Application No
P 93/14622

0.46	The Albandary Collins and the State of		5/14022
C.(Continua Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
X	WO 00/26188 A (CHRISTNER CLAUDIA; KUELLERTZ GERHARD (DE); MAX PLANCK GESELLSCHAFT (D) 11 May 2000 (2000-05-11) page 11; example 32		28
X	OJIMA I ET AL: "Design, synthesis and sar of RGD peptide hybrids as highly efficient inhibitors of platelet aggregation" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 5, no. 17, 7 September 1995 (1995-09-07), pages 1941-1946, XP004135341 ISSN: 0960-894X example 5; table 1		28
		·	
	•		
	· ·		



Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 22, 24 and 26 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X	Claims Nos.: 1-20 (in part); 27 (in part) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	see FURTHER INFORMATION sheet PCT/ISA/210
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	emational Searching Authority found multiple inventions in this international application, as follows:
	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
з	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark c	on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 22, 24 and 26 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.2

Claims Nos.: 1-20 (in part); 27 (in part)

The claims are so broadly drafted that the initial phase of the search revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claim(s) may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of the claims is impossible. Consequently, the search has been restricted to:

Compounds and pharmaceuticals of structure (I) in which Z is an optionally substituted cyclic group and A is a phenyl ring, i. e. a combination of claims 5 and 10, thus covering all examples. Use claims 21-26 and claim 28 have been searched completely.

Claim 2 is directed to prodrugs of structurally defined compounds. Since from the term "prodrug" without further definition it is not clear which compounds are actually covered by the claims (Art. 6 PCT) the search with respect to prodrugs has been limited to the possibilities mentioned on pages 50/51 of the description.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

Information on patent family members

International Application No PC P 03/14622

		·			F 03/14022
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2002091090	A1	11-07-2002	NONE		
GB 2351733	Α	10-01-2001	US	6387932 B1	14-05-2002
WO 0222577	. <b>A</b>	21-03-2002	AU BR CA CN CZ WO EP HU JP NO SK US	8212901 A 0113669 A 2420899 A1 1450991 T 20030573 A3 0222577 A2 1318980 A2 0300880 A2 2004509105 T 20030867 A 2422003 A3 2004024067 A1 2003018062 A1	22-10-2003 18-06-2003 21-03-2002
WO 0174844	Α	11-10-2001	AU CA WO EP JP US US	5040701 A 2402416 A1 0174844 A2 1272516 A2 2003529607 T 2003229200 A1 2001056179 A1	15-10-2001 11-10-2001 11-10-2001 08-01-2003 07-10-2003 11-12-2003 27-12-2001
WO 0155106	Α	02-08-2001	AU BR CA EP WO JP US	2867701 A 0107893 A 2398728 A1 1254114 A2 0155106 A2 2003520850 T 2003195212 A1	07-08-2001 05-11-2002 02-08-2001 06-11-2002 02-08-2001 08-07-2003 16-10-2003
GB 2140423	A	28-11-1984	AU BE BR DE DK ES FI FR IT JP NL NO SE ZA	2743284 A 899539 A1 8401996 A 3415636 A1 201084 A 8604691 A1 841686 A 2545503 A1 1182706 B 60037997 A 8401375 A 841653 A 8402305 A 8403169 A	01-11-1984 16-08-1984 04-12-1984 31-10-1984 29-10-1986 29-10-1984 09-11-1984 05-10-1987 27-02-1985 16-11-1984 29-10-1984 29-10-1984 29-10-1984
JP 52148032	A2	08-12-1977	JP JP JP	1195097 C 52148032 A 58026745 B	12-03-1984 08-12-1977 04-06-1983
WO 03082819	A1	09-10-2003	NONE		
EP 0761220	Α	12-03-1997	AU CA EP	6772996 A 2203428 A1 0761220 A1	12-03-1997 27-02-1997 12-03-1997

Information on patent family members

International Application No
P 03/14622

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0761220	A		WO	9706803 A1	27-02-1997
			US	5773441 A	30-06-1998
WO 0026188	Α	11-05-2000	AU	1157900 A	22-05-2000
			WO	0026188 A1	11-05-2000